

CLAIMS

What is claimed is:

1. A dispensing device for using flush water during a toilet flush to
5 dispense liquids into a toilet bowl, the device comprising:
a first bottle for holding a first liquid, the first bottle having a mouth and a
closure for covering the mouth;
a second bottle for holding a second liquid, the second bottle having a
mouth and a closure for covering the mouth;
10 a base for holding the first bottle and the second bottle, the base having a
first piercing post and a second piercing post, the first piercing post being suitable
for opening the closure of the first bottle and the second piercing post being
suitable for opening the closure of the second bottle;
a wicking device supported by the base, the wicking device being suitable
15 to convey the liquid from the first bottle to a first dispensing position contacted with
flush water during a toilet flush, and the wicking device being suitable to convey
the liquid from the second bottle to a second dispensing position contacted with
flush water during a toilet flush; and
suspension means for suspending the base from a rim of the toilet bowl,
20 wherein a majority of an upper surface of the first bottle and a majority of
an upper surface of the second bottle are not visible from above the rim of the
toilet bowl when the dispensing device is installed on the rim of the toilet bowl.

2. The dispensing device of claim 1 wherein:
25 the wicking device comprises a dispensing plate having channels formed in
an upper surface of the dispensing plate, the channels including a first group of
channels extending inward from a position below the mouth of the first bottle and
a second group of channels extending inward from a position below the mouth of
the second bottle.

3. A dispensing device for using flush water during a toilet flush to dispense liquids into a toilet bowl, the device comprising:

5 a first bottle for holding a first liquid, the first bottle having a mouth and a closure for covering the mouth;

a second bottle for holding a second liquid, the second bottle having a mouth and a closure for covering the mouth;

10 a base for holding the first bottle and the second bottle, the base having a first piercing post and a second piercing post, the first piercing post being suitable for opening the closure of the first bottle and the second piercing post being suitable for opening the closure of the second bottle;

15 a wicking device supported by the base, the wicking device being suitable to convey the liquid from the first bottle to a first dispensing position contacted with flush water during a toilet flush, and the wicking device being suitable to convey the liquid from the second bottle to a second dispensing position contacted with flush water during a toilet flush; and

20 suspension means for suspending the base from a rim of the toilet bowl, wherein the wicking device does not extend outward beyond an outermost edge of the base.

4. The dispensing device of claim 3 wherein:

25 the wicking device comprises a dispensing plate having channels formed in an upper surface of the dispensing plate, the channels including a first group of channels extending inward from a position below the mouth of the first bottle and a second group of channels extending inward from a position below the mouth of the second bottle.

30 5. A dispensing device for using flush water during a toilet flush to dispense liquids into a toilet bowl, the device comprising:

a first bottle for holding a first liquid, the first bottle having a mouth and a closure for covering the mouth;

a second bottle for holding a second liquid, the second bottle having a mouth and a closure for covering the mouth;

5 a base for holding the first bottle and the second bottle, the base having a first piercing post and a second piercing post, the first piercing post being suitable for opening the closure of the first bottle and the second piercing post being suitable for opening the closure of the second bottle;

10 a wicking device supported by the base, the wicking device being suitable to convey the liquid from the first bottle to a first dispensing position contacted with flush water during a toilet flush, and the wicking device being suitable to convey the liquid from the second bottle to a second dispensing position contacted with flush water during a toilet flush; and

15 suspension means for suspending the base from a rim of the toilet bowl, wherein the first bottle and the second bottle are at least partially spaced apart to define a flush water flow path between the first bottle and the second bottle and through openings in the base.

6. The dispensing device of claim 5 wherein:

20 the wicking device comprises a dispensing plate having channels formed in an upper surface of the dispensing plate, the channels including a first group of channels extending inward from a position below the mouth of the first bottle and a second group of channels extending inward from a position below the mouth of the second bottle.

25 7. The dispensing device of claim 5 wherein:

the openings in the base direct flush water onto an upper surface of the wicking device.

30 8. A dispensing device for using flush water during a toilet flush to dispense liquids into a toilet bowl, the device comprising:

a first bottle for holding a first liquid, the first bottle having a mouth and a closure for covering the mouth;

a second bottle for holding a second liquid, the second bottle having a mouth and a closure for covering the mouth;

5 a base for holding the first bottle and the second bottle, the base having a first piercing post and a second piercing post, the first piercing post being suitable for opening the closure of the first bottle and the second piercing post being suitable for opening the closure of the second bottle;

10 a wicking device supported by the base, the wicking device being suitable to convey the liquid from the first bottle to a first dispensing position contacted with flush water during a toilet flush, and the wicking device being suitable to convey the liquid from the second bottle to a second dispensing position contacted with flush water during a toilet flush; and

15 suspension means for suspending the base from a rim of the toilet bowl, wherein the wicking device comprises a dispensing plate having channels formed in an upper surface of the dispensing plate, the channels including a first group of channels extending inward from a position below the mouth of the first bottle and a second group of channels extending inward from a position below the mouth of the second bottle.

20 9. The dispensing device of claim 8 wherein:

the dispensing plate has an upwardly extending wall positioned between the first group of channels and the second group of channels.

25 10. The dispensing device of claim 8 wherein:

the first group of channels extends inward from a first collecting cavity at the position below the mouth of the first bottle and the second group of channels extends inward from a second collecting cavity at the position below the mouth of the second bottle.

11. A dispensing device for using flush water during a toilet flush to dispense liquids into a toilet bowl, the device comprising:

a first bottle for holding a first liquid, the first bottle having a mouth and a closure for covering the mouth;

5 a second bottle for holding a second liquid, the second bottle having a mouth and a closure for covering the mouth;

a base for holding the first bottle and the second bottle, the base having a first piercing post and a second piercing post, the first piercing post being suitable for opening the closure of the first bottle and the second piercing post being
10 suitable for opening the closure of the second bottle;

a wicking device supported by the base, the wicking device being suitable to convey the liquid from the first bottle to a first dispensing position contacted with flush water during a toilet flush, and the wicking device being suitable to convey the liquid from the second bottle to a second dispensing position contacted with
15 flush water during a toilet flush; and

suspension means for suspending the base from a rim of the toilet bowl, wherein the first bottle and the second bottle are arcuate.

12. The dispensing device of claim 11 wherein:

20 wherein a side wall of the first bottle and a side wall of the second bottle define a convex plane opposite the suspension means when the first bottle and the second bottle are installed in the base.

13. The dispensing device of claim 11 wherein:

25 the wicking device comprises a dispensing plate having channels formed in an upper surface of the dispensing plate, the channels including a first group of channels extending inward from a position below the mouth of the first bottle and a second group of channels extending inward from a position below the mouth of the second bottle.

14. A dispensing device for using flush water during a toilet flush to dispense liquids into a toilet bowl, the device comprising:

a first bottle for holding a first liquid, the first bottle having a mouth and a closure for covering the mouth;

5 a second bottle for holding a second liquid, the second bottle having a mouth and a closure for covering the mouth;

a base for holding the first bottle and the second bottle, the base having a first piercing post and a second piercing post, the first piercing post being suitable for opening the closure of the first bottle and the second piercing post being
10 suitable for opening the closure of the second bottle;

a wicking device supported by the base, the wicking device being suitable to convey the liquid from the first bottle to a first dispensing position contacted with flush water during a toilet flush, and the wicking device being suitable to convey the liquid from the second bottle to a second dispensing position contacted with
15 flush water during a toilet flush; and

suspension means for suspending the base from a rim of the toilet bowl, wherein the base is arcuate.

15. The dispensing device of claim 14 wherein:

20 the wicking device comprises a dispensing plate having channels formed in an upper surface of the dispensing plate, the channels including a first group of channels extending inward from a position below the mouth of the first bottle and a second group of channels extending inward from a position below the mouth of the second bottle.

25 16. A dispensing device for using flush water during a toilet flush to dispense liquids into a toilet bowl, the device comprising:

a first bottle for holding a first liquid, the first bottle having a mouth and a closure for covering the mouth;

30 a second bottle for holding a second liquid, the second bottle having a mouth and a closure for covering the mouth;

a base for holding the first bottle and the second bottle, the base having a first piercing post and a second piercing post, the first piercing post being suitable for opening the closure of the first bottle and the second piercing post being suitable for opening the closure of the second bottle;

5 a wicking device supported by the base, the wicking device being suitable to convey the liquid from the first bottle to a first dispensing position contacted with flush water during a toilet flush, and the wicking device being suitable to convey the liquid from the second bottle to a second dispensing position contacted with flush water during a toilet flush; and

10 suspension means for suspending the base from a rim of the toilet bowl, wherein the base includes a plurality of upstanding tabs for securing the first bottle and the second bottle in the base.

17. The dispensing device of claim 16 wherein:

15 the wicking device comprises a dispensing plate having channels formed in an upper surface of the dispensing plate, the channels including a first group of channels extending inward from a position below the mouth of the first bottle and a second group of channels extending inward from a position below the mouth of the second bottle.